U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

SEARCH REQUEST FORM

S-366

Requestor's Name: K. Weddington

Serial Number: 08/653, 034

Date: 8-10-97

Phone: 308-4650

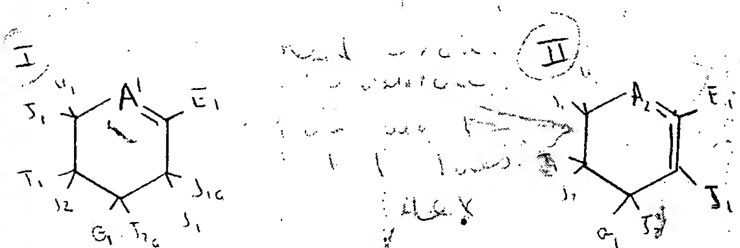
Art Unit: 1205

Search Topic:

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevent citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevent claim(s).

A composition used to inhibit the activity of neuraminidase

The compound of formula I or II



A1 is ~~C~~ -C(J1)=, or -N

A2 is -C(J1)2, -N(J1), -N(O)(J1), -N(O), S, SO-, SO2 - O

E1 is (CR1R1)m1 W1

G1 is N3 - CN, OH, OR6a - NO2

T1 is NR1 W3, a heterocycle, or taken together with U1 or G1 to form R6b-N

J1 and J1a are R1, Br, Cl, F, I, CN, NO2 or N3

J2 and J2a are H or R1

U1 is H or ~~R~~

R1 is H or alkyl

W1 is an acidic ...

STAFF USE ONLY

Date completed:

Searcher:

Terminal time:

Elapsed time:

CPU time:

Total time:

Number of Searches:

Number of Databases:

Search Site

___ STIC

___ CM-1

___ Pre-S

Type of Search

___ N.A. Sequence

___ A.A. Sequence

___ Structure

___ Bibliographic

Vendors

___ IG

\ STN

___ Dialog

___ APS

___ Geninfo

___ SDC

___ DARC/Questel

___ Other

PP 35

8
6
5
22
41
3
44

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=> d his

     (FILE 'REGISTRY' ENTERED AT 10:35:53 ON 19 AUG 1997)
                DEL HIS Y
                E NEURAMINIDASE/CN
L1            1 S E3

     FILE 'HCAPLUS' ENTERED AT 10:36:33 ON 19 AUG 1997
L2         4212 S L1 OR NEURAMINIDASE#
L3          432 S L2 (L) INHIBIT?

     FILE 'REGISTRY' ENTERED AT 10:36:46 ON 19 AUG 1997

     FILE 'HCAPLUS' ENTERED AT 10:36:51 ON 19 AUG 1997
L4           SEL L3 1- RN :    2758 TERMS

     FILE 'REGISTRY' ENTERED AT 10:37:57 ON 19 AUG 1997
L5         2755 S L4
                ACT KW/Q
               ---------
L6              STR
               ---------
                ACT KW3/Q
               ---------
L7              STR
               ---------
L8          319 SEARCH L6 OR L7 SSS  SUB=L5 FUL
                SAV L8 TEMP WEDDING/A

     FILE 'HCAPLUS' ENTERED AT 10:40:46 ON 19 AUG 1997
L9          910 S L8
L10          92 S L9 AND (L1 OR NEURAMINIDASE?)
L11          70 S L3 AND L9

     FILE 'REGISTRY' ENTERED AT 10:43:07 ON 19 AUG 1997

     FILE 'HCAPLUS' ENTERED AT 10:43:57 ON 19 AUG 1997
L12           11 S L11 AND (VIRAL? OR BACTERIAL?)
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FILE 'REGISTRY' ENTERED AT 10:44:41 ON 19 AUG 1997
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STRUCTURE FILE UPDATES:  15 AUG  97  HIGHEST RN 192750-07-5
DICTIONARY FILE UPDATES: 18 AUG  97  HIGHEST RN 192750-07-5

TSCA INFORMATION NOW CURRENT THROUGH DECEMBER 1996

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

=> d que stat l8
L1             1 SEA FILE=REGISTRY ABB=ON  NEURAMINIDASE/CN
L2          4212 SEA FILE=HCAPLUS ABB=ON  L1 OR NEURAMINIDASE#/OBI
L3           432 SEA FILE=HCAPLUS ABB=ON  L2 (L) INHIBIT?/OBI
L4               SEL  L3 1- RN :    2758 TERMS
L5          2755 SEA FILE=REGISTRY ABB=ON  L4
L6               STR
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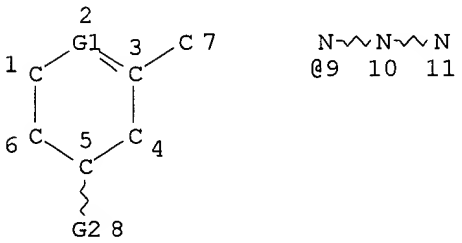


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VAR G2=9/CN/O/NO2
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS  11

STEREO ATTRIBUTES: NONE
L7               STR
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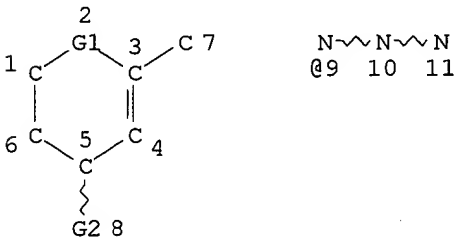


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VAR G1=C/N/S/O
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VAR G2=9/CN/O/NO2
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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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NUMBER OF NODES IS  11

STEREO ATTRIBUTES: NONE
L8          319 SEA FILE=REGISTRY SUB=L5 SSS FUL L6 OR L7

100.0% PROCESSED    338 ITERATIONS                    319 ANSWERS
SEARCH TIME: 00.00.05
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subset of all struc. from references with neuraminidase inhibitors.

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=> fil hcaplus
FILE 'HCAPLUS' ENTERED AT 10:44:48 ON 19 AUG 1997
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26, 1996), unless otherwise indicated in the original publications.

FILE COVERS 1967 - 19 Aug 1997  VOL 127 ISS 8
FILE LAST UPDATED: 19 Aug 1997  (970819/ED)

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

 Improved currency of Japanese patents.  See HELP JCURR.

 Attention ACS Las Vegas Attendees:  Meeting Abstracts for Las Vegas
 ACS National Meeting Now in CAPLUS!
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> d his l9-

     (FILE 'REGISTRY' ENTERED AT 10:37:57 ON 19 AUG 1997)
               SAV L8 TEMP WEDDING/A

     FILE 'HCAPLUS' ENTERED AT 10:40:46 ON 19 AUG 1997
L9           910 S L8
L10           92 S L9 AND (L1 OR NEURAMINIDASE?)
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     FILE 'HCAPLUS' ENTERED AT 10:43:57 ON 19 AUG 1997
L12           11 S L11 AND (VIRAL? OR BACTERIAL?)

     FILE 'REGISTRY' ENTERED AT 10:44:41 ON 19 AUG 1997

     FILE 'HCAPLUS' ENTERED AT 10:44:48 ON 19 AUG 1997
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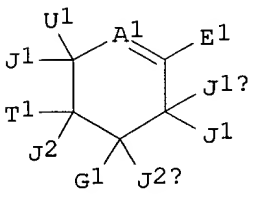
=> d .ca l12 1-11

L12 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1996:637103 HCAPLUS
DN 125:300503
TI Preparation of selective **inhibitors** of **viral** or **bacterial neuraminidases**
IN Bischofberger, Norbert W.; Kim, Choung U.; Lew, Willard; Liu, Hongtao; Williams, Matthew A.
PA Gilead Sciences, Inc., USA
SO PCT Int. Appl., 345 pp.
CODEN: PIXXD2
PI WO 9626933 A1 960906
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TT
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
AI WO 96-US2882 960226
PRAI US 95-395245 950227
US 95-476946 950606
US 95-580567 951229
DT Patent
LA English
OS MARPAT 125:300503
GI



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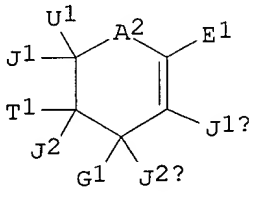

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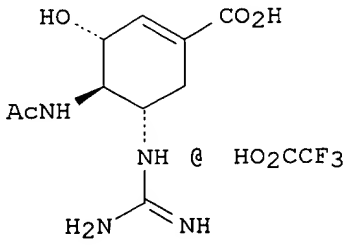

III

AB The title compds. [I, II; A1 = (un)substituted CH, N; A2 = (un)substituted CH2, (un)substituted NH, N(O), S, SO, SO2, O; E1 = terminal-(un)substituted alkyl; G1 = N3, CN, OH, NO2, alkoxy, etc.; T1 = (un)substituted NH2, heterocyclyl; J1, J1a = H, alkyl, halogen, CN, NO2, N3, etc.; U1 = H, (un)substituted SO3H, etc.; J2, J2a = H,

alkyl] (e.g., III; IC50 <1.0 .mu.M), useful as selective inhibitors of viral or bacterial neuraminidases, are prepd.

IT **182367-43-7P 182367-52-8P 182367-53-9P 182367-59-5P 182367-74-4P 182511-81-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IT **9001-67-6, Neuraminidase**
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IT **182511-90-6**
RL: RCT (Reactant)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IT **76985-85-8P 88587-13-7P 113409-82-8P 157750-77-1P 182367-16-4P 182367-18-6P 182367-19-7P 182367-20-0P 182367-21-1P 182367-22-2P 182367-23-3P 182367-25-5P 182367-26-6P 182367-27-7P 182367-28-8P 182367-29-9P 182367-30-2P 182367-31-3P 182367-32-4P 182367-34-6P 182367-36-8P 182367-38-0P 182367-40-4P 182367-45-9P 182367-47-1P 182367-49-3P 182367-55-1P 182367-57-3P 182367-61-9P 182367-63-1P 182367-66-4P 182367-68-6P 182367-71-1P 182367-77-7P 182367-80-2P 182367-82-4P 182367-84-6P 182367-88-0P 182367-90-4P 182367-92-6P 182367-94-8P 182367-95-9P 182367-96-0P 182367-98-2P 182368-00-9P 182368-02-1P 182368-03-2P 182368-04-3P 182368-06-5P 182368-08-7P 182368-11-2P 182368-13-4P 182368-15-6P 182368-17-8P 182368-18-9P 182368-19-0P 182368-20-3P 182368-21-4P 182368-22-5P 182368-23-6P 182368-24-7P 182368-25-8P 182368-26-9P 182368-27-0P 182368-28-1P 182368-29-2P 182368-30-5P 182368-31-6P 182368-32-7P 182368-33-8P 182368-34-9P 182368-35-0P 182368-36-1P 182368-37-2P 182368-38-3P 182368-39-4P 182368-40-7P 182368-41-8P 182368-42-9P 182368-43-0P 182368-44-1P 182368-45-2P 182368-46-3P 182368-47-4P 182368-48-5P 182368-49-6P 182368-50-9P 182368-51-0P 182368-52-1P 182368-53-2P 182368-56-5P 182368-57-6P 182368-58-7P 182368-59-8P 182368-60-1P 182368-62-3P 182368-63-4P 182368-64-5P 182511-79-1P 182511-84-8P 182511-87-1P 182511-89-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IC ICM C07D309-28
ICS A61K031-55

CC 24-5 (Alicyclic Compounds)
Section cross-reference(s): 1, 27

ST **viral bacterial neuraminidase inhibitor** prepn; antiviral agent prepn; antibiotic prepn **bacterial neuraminidase inhibitor**

IT Antibiotics
(selective **inhibitors** of **bacterial neuraminidases**)

IT Virucides and Virustats
(selective **inhibitors** of **viral neuraminidases**)

IT **182367-43-7P** 182367-51-7P **182367-52-8P** **182367-53-9P** **182367-59-5P** **182367-74-4P** **182511-81-5P**
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IT **9001-67-6**, **Neuraminidase**
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IT 67-64-1, 2-Propanone, reactions 75-85-4 76-83-5 77-76-9 100-66-3, reactions 104-15-4, reactions 107-03-9, 1-Propanethiol 108-24-7 108-93-0, Cyclohexanol, reactions 108-94-1, Cyclohexanone, reactions 431-47-0 556-56-9 883-40-9 1892-57-5 3282-30-2 4530-20-5 7487-94-7, Mercury chloride, reactions 24424-99-5 36413-60-2 40348-66-1 60099-09-4 103057-51-8 145013-05-4 **182511-90-6**
RL: RCT (Reactant)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

IT 4620-57-9P **76985-85-8P** **88587-13-7P** **113409-82-8P** 156472-82-1P **157750-77-1P** **182367-16-4P** **182367-18-6P** **182367-19-7P** **182367-20-0P** **182367-21-1P** **182367-22-2P** **182367-23-3P** 182367-24-4P **182367-25-5P** **182367-26-6P** **182367-27-7P** **182367-28-8P** **182367-29-9P** **182367-30-2P** **182367-31-3P** **182367-32-4P** **182367-34-6P** **182367-36-8P** **182367-38-0P** **182367-40-4P** **182367-45-9P** **182367-47-1P** **182367-49-3P** **182367-55-1P** **182367-57-3P** **182367-61-9P** **182367-63-1P** **182367-66-4P** **182367-68-6P** **182367-71-1P** **182367-77-7P** **182367-80-2P** **182367-82-4P** **182367-84-6P** 182367-86-8P **182367-88-0P** **182367-90-4P** **182367-92-6P** **182367-94-8P** **182367-95-9P** **182367-96-0P** **182367-98-2P** **182368-00-9P** **182368-02-1P** **182368-03-2P** **182368-04-3P** **182368-06-5P** **182368-08-7P** **182368-11-2P** **182368-13-4P** **182368-15-6P** **182368-17-8P** **182368-18-9P** **182368-19-0P** **182368-20-3P** **182368-21-4P** **182368-22-5P** **182368-23-6P** **182368-24-7P** **182368-25-8P** **182368-26-9P** **182368-27-0P** **182368-28-1P**

182368-29-2P 182368-30-5P 182368-31-6P
182368-32-7P 182368-33-8P 182368-34-9P
182368-35-0P 182368-36-1P 182368-37-2P
182368-38-3P 182368-39-4P 182368-40-7P
182368-41-8P 182368-42-9P 182368-43-0P
182368-44-1P 182368-45-2P 182368-46-3P
182368-47-4P 182368-48-5P 182368-49-6P
182368-50-9P 182368-51-0P 182368-52-1P
182368-53-2P 182368-54-3P 182368-55-4P
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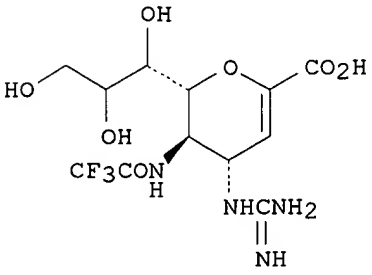
182511-79-1P 182511-84-8P 182511-87-1P
182511-88-2P **182511-89-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of selective **inhibitors** of **viral** or **bacterial neuraminidases**)

L12 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1995:994179 HCAPLUS
DN 124:56567
TI Preparation of 2-amino-2-deoxy-2,3-dehydro-N-acetylneuraminic acid derivative as **inhibitor** of **viral** **neuraminidase** and influenza virus
IN Von Itzstein, Laurence Mark; Wu, Wen-Yang; Jin, Betty
PA Biota Scientific Management Pty. Ltd., Australia
SO PCT Int. Appl., 22 pp.
CODEN: PIXXD2
PI WO 9520583 A1 950803
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
AI WO 95-AU33 950125
PRAI AU 94-3546 940127
DT Patent
LA English
GI



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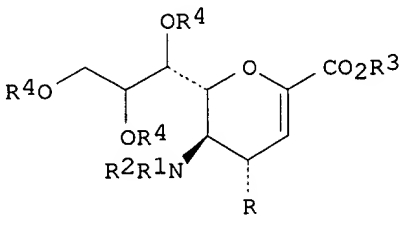


II

AB The compd. of formula (I) and its physiol. acceptable derivs. and solvates are prepd. Thus, 10 g Me 5-acetamido-2,6-anhydro-4-azido-3,4,5-trideoxy-D-glycero-D-galacto-non-2-enoate (II; R = N3, R1 = R4 = Ac, R2 = H, R3 = Me) was acylated by (15.6 g) Boc2O (Boc = tert-butoxycarbonyl) in three portions in the presence of 4-dimethylaminopyridine in 1,4-dioxane and pyridine at room temp. for 89 h and 80.degree. for 2 h to give 10.5 g II (R = N3, R1 = R4 = Ac, R2 = Boc, R3 = Me), which (180 mg) was treated with NaOMe in MeOH at room temp. for 3 h, stirred with 0.1 M NaOH at room temp. for 4 h, and adjusted to pH 7 with Dowex-50W X8 (H+) to give 120 mg II (R = N3, R1 = R3 = R4 = H, R2 = Boc). This compd. (120 mg) was dissolved in a mixt. of DMF and pyridine, treated with 160 mg Ph3P at room temp. for 2 h, and after evapn. of the solvent stirred in MeOH to give 54 mg II (R = NH2, R1 = R3 = R4 = H, R2 = Boc), which (50 mg) was treated with 170 mg aminoiminomethanesulfonic acid and K2CO3 in H2O at 35-40.degree. overnight, followed by workup, deprotection with CF3CO2H, and chromatog. on a column of IR-120 (H+) to give II [R = NHC(:NH)NH2, R1 = R2 = R3 = R4 = H]. The latter amine (50 mg) was acylated by Me trifluoroacetate in the presence of Et3N in MeOH for 3 days to give 20 mg I. I was found to be a slow binding inhibitor of neuraminidase from both influenza A and B, having Ki of .apprx.10-9 M. In the plaque redn. assay described in the patent WO 91/16320, I showed the plaque I50 of 0.03 and 0.01 for influenza A and B, resp.

IT **9001-67-6, Neuraminidase**
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(influenza A and B; prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT **130525-58-5**
RL: RCT (Reactant)
(prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT **171886-97-8P 171886-98-9P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IC ICM C07D309-28
ICS A61K031-35

CC 33-8 (Carbohydrates)
Section cross-reference(s): 1

ST aminodeoxydehydroacetylneuraminic acid prepn **inhibitor** **viral neuraminidase**; influenza virus **inhibitor** aminodeoxydehydroacetylneuraminic acid

IT Virucides and Virustats
(prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT Virus, animal
(influenza, prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT **9001-67-6, Neuraminidase**
RL: BPR (Biological process); BIOL (Biological study); PROC

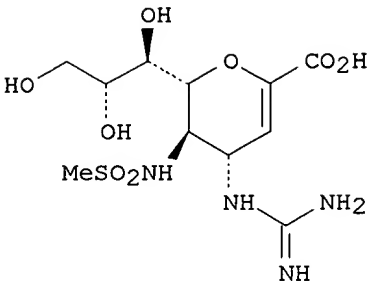
(Process)
(influenza A and B; prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT 171886-96-7P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT 431-47-0, Methyl trifluoroacetate 1184-90-3, Aminoiminomethanesulfonic acid 24424-99-5, Di-tert-butyl dicarbonate **130525-58-5**
RL: RCT (Reactant)
(prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

IT **171886-97-8P 171886-98-9P** 171886-99-0P 171887-00-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of aminodeoxydehydro-N-acetylneuraminic acid deriv. as **inhibitor** of **viral neuraminidase** and influenza virus)

L12 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1995:973487 HCAPLUS
DN 124:9327
TI Preparation of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivatives as **inhibitors** of **viral neuraminidase**.
IN Smith, Paul William
PA Glaxo Group Ltd., UK
SO PCT Int. Appl., 19 pp.
CODEN: PIXXD2
PI WO 9518800 A1 950713
DS W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LU, LV, MD, MG, MN, MW, MX, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US
RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG
AI WO 95-EP40 950105
PRAI GB 94-206 940107
DT Patent
LA English
GI



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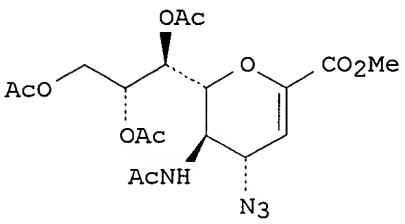


II

AB Title compd. (I) and derivs. were prepd. as virucides (no data). I.2TFA was prepd. from azidopyrancarboxylate precursor (II) in several steps.

IT **130525-58-5**
RL: RCT (Reactant)
(prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)

IT **171241-94-4P 171241-95-5P 171241-96-6P 171241-97-7P 171241-98-8P 171886-97-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)

IT **9001-67-6, Neuraminidase**
RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)
(**viral**; prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)

IC ICM C07D309-28

CC 33-7 (Carbohydrates)
Section cross-reference(s): 1

ST deoxydehydroacetylneuraminate deriv prepn virucide; **neuraminidase viral inhibitor** prepn deoxydehydroacetylneuraminate deriv; dana analog prepn virucide

IT Virucides and Virustats
(prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)

IT Carbohydrates and Sugars, preparation
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(aminodeoxy, prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)

IT 171241-90-0P 171241-91-1P
RL: BAC (Biological activity or effector, except adverse); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral**

neuraminidase.)
IT 124-63-0, Methanesulfonyl chloride 1184-90-3, Aminoiminomethanesulfonic acid **130525-58-5**
RL: RCT (Reactant)
(prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)
IT **171241-94-4P 171241-95-5P 171241-96-6P 171241-97-7P 171241-98-8P** 171241-99-9P **171886-97-8P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)
IT **9001-67-6, Neuraminidase**
RL: BSU (Biological study, unclassified); MSC (Miscellaneous); BIOL (Biological study)
(**viral**; prepn. of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid and derivs. as **inhibitors** of **viral neuraminidase**.)

L12 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1995:117619 HCAPLUS
DN 122:23254
TI Inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid
AU Hagiwara, Teruhiko; Kijima-Suda, Isao; Ido, Tatsuo; Ohrui, Hiroshi; Tomita, Kenkichi
CS Tokyo Research Institute, MECT Corporation, 1780 Kitano, Tokorozawa, Saitama, 359, Japan
SO Carbohydr. Res. (1994), 263(1), 167-72
CODEN: CRBRAT; ISSN: 0008-6215
DT Journal
LA English
OS CJELSEVIER
AB 3-Fluoro-N-acetylneuraminic acid inhibited sialidase of several bacterial sources and influenza A virus, but had no effect on the activity of several other viruses. The inhibitory activities of 5-acetamido-2,5-dideoxy-2,3-difluoro-D-erythro-.alpha.-L-gluco-2-nonulopyranosonic acid and sodium N-acetyl-2,3-didehydro-2-deoxyneuraminate against these bacterial and viral enzymes was also detd. The selectivity of 3-fluoro-N-acetylneuraminic acid as an inhibitor may be useful for classifying sialidases from various sources and may favor the in vivo application of this compd. as an anti-influenza virus agent.
IT **159658-90-9**
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT **9001-67-6**, Sialidase
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(**inhibition** of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)

CC 1-5 (Pharmacology)
Section cross-reference(s): 10
IT Arthrobacter ureafaciens
Clostridium perfringens
Kinetics, enzymic
Streptococcus
Vibrio cholerae
Virucides and Virustats
(inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT Virus, animal
(Newcastle disease, inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT Virus, animal
(Sendai, inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT Virus, animal
(influenza A, inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT 117295-67-7 **159658-90-9**
RL: BAC (Biological activity or effector, except adverse); BIOL (Biological study)
(inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT 117295-68-8
RL: BAC (Biological activity or effector, except adverse); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(inhibition of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)
IT **9001-67-6**, Sialidase
RL: BPR (Biological process); BIOL (Biological study); PROC (Process)
(**inhibition** of **bacterial** and **viral** sialidases by 3-fluoro-N-acetylneuraminic acid in relation to anti-influenza virus activity)

L12 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1994:26132 HCAPLUS
DN 120:26132
TI Inhibition of sialidases from **viral**, **bacterial** and mammalian sources by analogs of 2-deoxy-2,3-didehydro-N-acetylneuraminic acid modified at the C-4 position
AU Holzer, Cindy T.; Von Itzstein, Mark; Jin, Betty; Pegg, Michael S.; Stewart, Wendy P.; Wu, Wen Yang
CS Victorian Coll. Pharm., Monash Univ., Parkville, 3052, Australia
SO Glycoconjugate J. (1993), 10(1), 40-4
CODEN: GLJOEW; ISSN: 0282-0080
DT Journal
LA English
AB The inhibition of sialidase activity from influenza viruses A and B, parainfluenza 2 virus, Vibrio cholerae, Arthrobacter ureafaciens,

Clostridium perfringens, and sheep liver by a range of 2-deoxy-2,3-didehydro-N-acetylneuraminic acid analogs modified at the C-4 position has been studied. All substitutions tested resulted in a decrease in the degree of inhibition of the bacterial and mammalian sialidases. For sialidases from influenza viruses A and B, on the other hand, most of the substitutions tested either had no significant effect on binding or, in the case of the basic amino and guanidino substituents, resulted in significantly stronger inhibition. The results for parainfluenza 2 virus sialidase were mostly intermediate, in that inhibition was neither significantly increased nor decreased by most of the modifications. The authors conclude that only the influenza A and B sialidase active sites possess acid groups correctly positioned to participate in charge-charge interactions in the region of C-4 of bound substrate, and that the C-4 binding pockets of the bacterial and mammalian sialidases examd. are considerably smaller than is obsd. for either the influenza virus or parainfluenza virus sialidases.

IT **9001-67-6**, Sialidase
RL: BIOL (Biological study)
(multiple forms of, deoxydidehydroacetylneuraminate analogs **inhibition** of, of viruses and bacteria and mammals, analog structure in relation to)

IT **24967-27-9 151781-02-1**
RL: BIOL (Biological study)
(sialidase multiple forms of viruses and bacteria and mammals inhibition by, structure in relation to)

CC 7-3 (Enzymes)
Section cross-reference(s): 1

IT Molecular structure-biological activity relationship
(**neuraminidase-inhibiting**, of deoxydidehydroacetylneuraminate analogs)

IT **9001-67-6**, Sialidase
RL: BIOL (Biological study)
(multiple forms of, deoxydidehydroacetylneuraminate analogs **inhibition** of, of viruses and bacteria and mammals, analog structure in relation to)

IT **24967-27-9** 130525-62-1 139110-80-8 **151781-02-1**
151781-03-2 151781-04-3 151781-05-4 151781-06-5 152699-64-4
RL: BIOL (Biological study)
(sialidase multiple forms of viruses and bacteria and mammals inhibition by, structure in relation to)

L12 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1993:665155 HCAPLUS
DN 119:265155
TI Differential effect of various inhibitors on four types of rat sialidase
AU Miyagi, Taeko; Hata, Keiko; Hasegawa, Akira; Aoyagi, Takaaki
CS Res. Inst., Miyagi Cancer Cent., Natori, 981-12, Japan
SO Glycoconjugate J. (1993), 10(1), 45-9
CODEN: GLJOEW; ISSN: 0282-0080
DT Journal
LA English
AB The inhibitory effect of various compds. on the activities of four types of rat sialidase was investigated. 2-Deoxy-2,3-dehydro-N-acetylneuraminic acid and N-acetylneuraminic acid were competitive inhibitors for the sialidases. The former was effective against

cytosolic sialidase and intralysosomal sialidase more than two membrane-assocd. sialidases I and II, the latter being a much weaker inhibitor. A heavy metal ion such as Cu2+ (1 mM) and thiol-modifying 4-hydroxymercuribenzoate (50 .mu.M) caused complete inhibition of the activities of cytosolic sialidase and membrane sialidase I, while no decrease in the activities of intralysosomal sialidase and membrane sialidase II was obsd. When 4-nitrophenyloxamic acid and siastatin B, inhibitors of bacterial sialidases, and synthetic thioglycoside GM3 analog Neu5Ac.alpha.-S-(2-6)Gal.beta.(1-4)Glc.beta.(1-1) ceramide, an inhibitor of influenza virus sialidase, were tested, they did not affect any activity of the rat sialidases. By the differential effect of these inhibitors, the four types of rat sialidase could be discriminated from one another and from viral and bacterial sialidases.

IT **9001-67-6**, Sialidase
RL: BIOL (Biological study)
(multiple forms of, differential effect of **inhibitors** on, of liver, **viral** and **bacterial** enzymes in relation to)

IT **24967-27-9**
RL: BIOL (Biological study)
(sialidase multiple forms of liver inhibition by, kinetics of)

CC 7-3 (Enzymes)

IT Liver, composition
(sialidase multiple forms of, differential effect of inhibitors on, **viral** and **bacterial** sialidases in relation to)

IT **9001-67-6**, Sialidase
RL: BIOL (Biological study)
(multiple forms of, differential effect of **inhibitors** on, of liver, **viral** and **bacterial** enzymes in relation to)

IT 131-48-6, N-Acetylneuraminic acid **24967-27-9**
RL: BIOL (Biological study)
(sialidase multiple forms of liver inhibition by, kinetics of)

L12 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1992:101671 HCAPLUS
DN 116:101671
TI On the inhibition mechanism of the sialidase activity from Newcastle disease virus
AU Garcia Sastre, Adolfo; Cobaleda, Cesar; Cabezas, Jose A.; Villar, Enrique
CS Fac. Biol., Univ. Salamanca, Salamanca, Spain
SO Biol. Chem. Hoppe-Seyler (1991), 372(10), 923-7
CODEN: BCHSEI; ISSN: 0177-3593
DT Journal
LA English
AB N-Acetylneuraminic acid, 2-deoxy-2,3-didehydro-N-acetylneuraminic acid and the .beta. anomer of methoxyneuraminic acid (Neu5Ac, Neu5Ac2en, MeONeu, resp.) were used as probes for the catalytic mechanism of the activities of the outer membrane-bound hemagglutinin-neuraminidase (HN) from newcastle disease virus (NDV). Neu5Ac and Neu5Ac2en produced a competitive inhibition of the sialidase (neuraminidase) activity, whereas MeONeu has no effect on this activity. This lack of inhibition can be explained by the free

amino group lacking the acetyl substituent in the MeONeu. Neu5Ac2en produced the highest inhibition. Based on the effect of the inhibitors, a reaction mechanism is suggested. On the other hand, the above mentioned inhibitors of the sialidase activity had no effect on hemagglutinating activity, suggesting different active sites for the activities.

IT **9001-67-6**, Sialidase
RL: BIOL (Biological study)
(**inhibition** of, of HN protein of Newcastle disease virus by neuraminic acid derivs., kinetics and mechanism of, HN protein hemagglutination activity in relation to)

IT **24967-27-9**
RL: BIOL (Biological study)
(sialidase of HN protein of Newcastle disease virus inhibition by, kinetics and mechanism of)

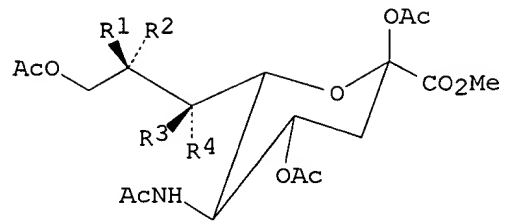
CC 7-4 (Enzymes)
Section cross-reference(s): 10

IT Hemagglutination
(**viral**, by HN protein of Newcastle disease virus, active sites for, assocd. sialidase activity in relation to)

IT **9001-67-6**, Sialidase
RL: BIOL (Biological study)
(**inhibition** of, of HN protein of Newcastle disease virus by neuraminic acid derivs., kinetics and mechanism of, HN protein hemagglutination activity in relation to)

IT 131-48-6, N-Acetylneuraminic acid **24967-27-9**
RL: BIOL (Biological study)
(sialidase of HN protein of Newcastle disease virus inhibition by, kinetics and mechanism of)

L12 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1987:554651 HCAPLUS
DN 107:154651
TI Structural variations of N-acetylneuraminic acid. 7. Synthesis of the C-7-, C-8- and C-7, -8-side chain epimers of 2-deoxy-2,3-didehydro-N-acetylneuraminic acid and their behavior towards sialidase from Vibrio cholerae
AU Zbiral, Erich; Brandstetter, Hannelore H.; Christian, Rudolf; Schauer, Roland
CS Inst. Org. Chem., Univ. Wien, Vienna, A-1090, Austria
SO Liebigs Ann. Chem. (1987), (9), 781-6
CODEN: LACHDL; ISSN: 0170-2041
DT Journal
LA English
OS CASREACT 107:154651
GI



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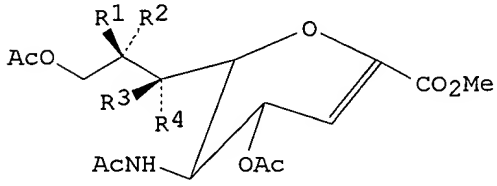
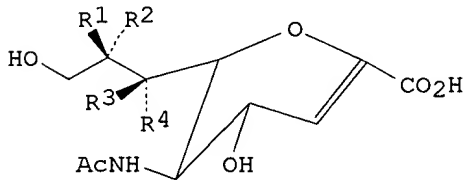


II



III

AB Treatment of epi-neuraminic acids I (R1 = R3 = OAc, R2 = R4 = H; R2 = R4 = OAc, R1 = R3 = H; R2 = R3 = OAc, R1 = R4 = H) with CF3SO3S:Me3 in MeCN gave 25-52% 2-deoxy-2,3-didehydro derivs. II (R1-R4 same), which on hydrolysis with aq. NaOH gave 50-80% the free acids III (R1 = R3 = OH, R2 = R4 = H; R2 = R4 = OH, R1 = R3 = H; R2 = R3 = OH, R1 = R4 = H). III show significantly different inhibitory effect on the hydrolysis of 4-methylumbelliferyl-.alpha.-Neu5Ac by B. cholerae Sialidase. The conformation of III were detd. The stereochem. and conformation of the side chains in III have a dominating influence on the sialidase reaction.

IT **9001-67-6P**
RL: PREP (Preparation)
(from Vibrio cholerae, **inhibition** of, by didehydroacetylneuraminic acid, epimers)

IT **108675-60-1P 108675-61-2P 108675-62-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and effect of, on activity of **bacterial** sialidase)

IT **108812-69-7P 108812-70-0P 108812-71-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)

CC 33-8 (Carbohydrates)
Section cross-reference(s): 7, 22

IT **9001-67-6P**
RL: PREP (Preparation)
(from Vibrio cholerae, **inhibition** of, by didehydroacetylneuraminic acid, epimers)

IT **108675-60-1P 108675-61-2P 108675-62-3P**
RL: SPN (Synthetic preparation); PREP (Preparation)

(prepn. and effect of, on activity of **bacterial** sialidase)

IT 108740-40-5P **108812-69-7P 108812-70-0P 108812-71-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)
(prepn. and hydrolysis of)

L12 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1987:80690 HCAPLUS
DN 106:80690
TI Characterization of influenza virus neuraminidase with hemagglutinin activity and its comparison with that of **viral** neuraminidase
AU Arora, D. Jit S.; Gabriel, Laurent F.
CS Inst. Armand Frappier, Univ. Quebec, Laval, PQ, H7N 4Z3, Can.
SO Biochim. Biophys. Acta (1986), 884(1), 73-83
CODEN: BBACAQ; ISSN: 0006-3002
DT Journal
LA English
AB The neuraminidase assocd. with the bifunctional protein hemagglutinin-neuraminidase of influenza virus was characterized. The enzyme has a pH optimum of 4.5, does not require Ca2+, and is inactivated (98%) by incubation at 50.degree.. The enzyme has a Km of 2.00 .times. 10-3 and 0.06 .times. 10-3M with the substrates 2-(3-methoxyphenyl)-N-acetylneuraminic acid and fetuin, resp. The Ki is 4.00 .times. 10-6M with the inhibitor 2-deoxy-2,3-dehydro-N-acetylneuraminic acid. The incorporation of labeled cysteine, valine, and leucine in the hemagglutinin-neuraminidase protein is different from that of viral neuraminidase. A comparison of the properties of the neuraminidase assocd. with protein hemagglutinin-neuraminidase with that of viral neuraminidase or sialidase showed that the former is biochem. different and an antigenically distinct enzyme. The unique feature of the new enzyme is that it has the hemagglutinin activity as well. The 2 biol. activities could not be sepd. from each other in all systems used. Apparently, protein hemagglutinin-neuraminidase is genetically transferable and it is detectable in a lab. recombinant virus E-2971 (H3 Aichi .times. N7). Protein hemagglutinin-neuraminidase is apparently a unique surface protein of the influenza virus A/Aichi/2/68 (H3N2).

IT **24967-27-9**
RL: BIOL (Biological study)
(hemagglutinin-**neuraminidase** of influenza virus **inhibition** by, kinetics of)

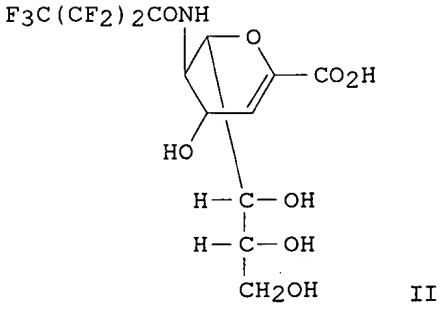
CC 7-2 (Enzymes)

IT Kinetics, enzymic
(of **inhibition**, of hemagglutinin-**neuraminidase** of influenza virus)

IT 7440-50-8, biological studies
RL: BIOL (Biological study)
(hemagglutinin-**neuraminidase** of influenza virus **inhibition** by)

IT **24967-27-9**
RL: BIOL (Biological study)
(hemagglutinin-**neuraminidase** of influenza virus **inhibition** by, kinetics of)

L12 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1982:81804 HCAPLUS
DN 96:81804
TI Sterical requirements for **inhibitors** of **viral neuraminidases**
AU Dernick, Rudolf; Heukeshoven, Jochen
CS Heinrich-Pette-Inst., Univ. Hamburg, Hamburg, Fed. Rep. Ger.
SO Antiviral Chemother.: Des. Inhib. Viral Funct., [Proc. Symp. Antiviral Chemother.] (1981), Meeting Date 1980, 327-36. Editor(s): Gauri, Kailash K. Publisher: Academic, New York, N. Y.
CODEN: 46UVAL
DT Conference
LA English
GI



II

AB To det. the steric requirements for inhibitors of neuraminidase (EC 3.2.1.18) (I) in myxoviruses, fluoro derivs. of 2-deoxy-2,3-dehydro-N-acylneuraminic acid and substances resembling these inhibitors were tested against the myxoviruses: fowl plague virus (FPV) and Newcastle virus (NDV). I of Vibrio cholerae was included for comparison.,. 2-Deoxy-2,3-dehydro-N-trifluoroacetylneuraminic acid (FANA) is the most potent inhibitor for all 3 I activities. 2-Deoxy-2,3-dehydro-N-pentafluoropropionylneuraminic acid (FPNA) and 2-deoxy-2,3-dehydro-N-heptafluorobutyrylneuraminic acid (II) inhibit Vibrio I to the same degree but differ in the inhibition of myxovirus I activities. The introduction of further F atoms into the acyl group does not increase the inhibitory power of these compds. beyond that of FANA. The larger substituents in FPNA and II even diminish the inhibitory power of fluoroacyl derivs. toward FPV and NDV I. Shikimic acid, which resembles to a certain extent the ring structure of 2-deoxy-2,3-dehydroneuraminic acid, slightly inhibits NDV I, whereas D-scyllo-quinic acid, resembling the ring of neuraminic acid, is without inhibitory effect. Thus, a half-planar unsatd. 6-member ring system is an important constituent of I inhibitors.

IT **9001-67-6**
RL: PROC (Process)
(**inhibition** of, of myxovirus, by substrate analogs and derivs., steric requirements for)

IT **138-59-0 41976-50-5 80457-97-2**

80457-98-3
RL: BIOL (Biological study)
(neuraminidiase of myxovirus inhibition by, stereochem. in relation to)
CC 7-3 (Enzymes)
ST **neuraminidase inhibitor** stereochem myxovirus; virus myxo **neuraminidase inhibitor** stereochem; fowl plague virus **neuraminidase inhibitor**; Newcastle disease virus **neuraminidase inhibitor**
IT Vibrio cholerae
(**neuraminidase** of, substrate analogs and derivs. **inhibition** of, steric requirements for)
IT Virus, animal
(Newcastle disease, **neuraminidase** of, **inhibition** by substrate analogs and derivs., steric requirements for)
IT Virus, animal
(fowl plague, **neuraminidase** of, **inhibition** by substrate analogs and derivs., steric requirements for)
IT Molecular structure-biological activity relationship
(**neuraminidase-inhibiting**, of substrate analogs and derivs.)
IT **9001-67-6**
RL: PROC (Process)
(**inhibition** of, of myxovirus, by substrate analogs and derivs., steric requirements for)
IT **138-59-0** 150-13-0 23804-29-7 **41976-50-5** 50721-51-2 **80457-97-2** **80457-98-3**
RL: BIOL (Biological study)
(neuraminidiase of myxovirus inhibition by, stereochem. in relation to)

L12 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 1997 ACS
AN 1970:442027 HCAPLUS
DN 73:42027
TI 2-Deoxy-2,3-dehydrosialic acids. 3. **Inhibition** of Vibrio cholerae **neuraminidase** by oxidation products of 2-deoxy-2,3-dehydro-N-acetylneuraminic acid
AU Meindl, Peter; Tuppy, Hans
CS Chem. Lab., Arzneimittelforsch. G.m.b.H., Vienna, Austria
SO Monatsh. Chem. (1970), 101(3), 639-47
CODEN: MOCHAP
DT Journal
LA German
AB Me 2-deoxy-2,3-dehydro-N - acetylneuraminate was oxidized with HIO4, to Me 4-hydroxy-5-(acetylamino)-6-formyl-2,3-dehydropyran-2-carboxylate. On treatment with carbonyl reagents, the aldehyde gave the expected derivs. Upon redn. with NaBH4, Me 4-hydroxy-5-(acetylamino)-6-(hydroxymethyl)-2,3-dehydropyran-2-carboxylate was formed. V. comma neuraminidase was inhibited by 4-hydroxy-5-(acetylamino)-6-formyl-2,3-dehydropyran-2-carboxylic acid, by its isonicotinoyl hydrazone, and by 4-hydroxy-5-(acetylamino)-6-(hydroxymethyl) - 2,3-dehydropyran-2-carboxylic acid.
IT **29429-86-5** **29429-88-7**
RL: BIOL (Biological study)
(**neuraminidase inhibition** by)

IT **26372-78-1P 26372-79-2P 26372-80-5P**
29429-87-6P 29429-89-8P 29429-90-1P
29429-91-2P 29429-93-4P 29429-94-5P
30732-24-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)
CC 3 (Enzymes)
ST pyrancarboxylates **neuraminidase inhibitors**;
neuranimidase **inhibitors** pyrancarboxylates;
inhibitors neuraminidase pyrancarboxylates;
acetylneuraminate Vibrio; **bacterial neuraminidase**
IT Vibrio
(comma, **neuraminidase** of, **inhibition** of)
IT **Neuraminidase**
(**inhibition** of Vibrio comma, by deoxydehydrosialic acid
derivs.)
IT **29429-86-5 29429-88-7**
RL: BIOL (Biological study)
(**neuraminidase inhibition** by)
IT **26372-78-1P 26372-79-2P 26372-80-5P**
29429-87-6P 29429-89-8P 29429-90-1P
29429-91-2P 29429-93-4P 29429-94-5P
29610-85-3P **30732-24-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of)

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SmartSELECT INITIATED

L13 SEL
L12 1 RN HIT : 110 TERMS

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SET COMMAND COMPLETED

=> sel rn hit l12 1
E1 THROUGH E110 ASSIGNED

=> sel rn hit l12 2-12
11 ANSWERS ARE AVAILABLE. SPECIFIED ANSWER NUMBER EXCEEDS ANSWER SET SIZE.
ENTER ANSWER NUMBER OR RANGE (1-):2-11
E111 THROUGH E144 ASSIGNED

=> fil reg
FILE 'REGISTRY' ENTERED AT 10:46:38 ON 19 AUG 1997
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DICTIONARY FILE UPDATES: 18 AUG 97 HIGHEST RN 192750-07-5

TSCA INFORMATION NOW CURRENT THROUGH DECEMBER 1996

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

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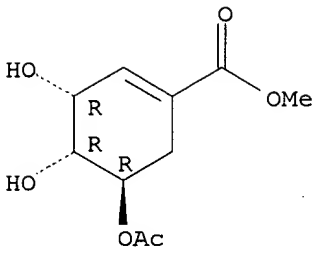
L14 ANSWER 1 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182511-90-6** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 5-(acetyloxy)-3,4-dihydroxy-, methyl ester, (3.alpha.,4.alpha.,5.beta.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C10 H14 O6
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.

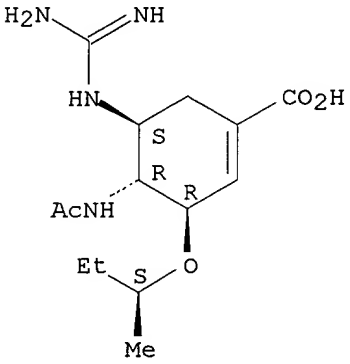


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 5 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182511-81-5** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-[(aminoiminomethyl)amino]-3-(1-methylpropoxy)-, [3.alpha.(S*),4.beta.,5.alpha.]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C14 H24 N4 O4
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 10 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182368-60-1** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-[[bis[[(1,1-dimethylethoxy)carbonyl]amino]methylene]amino]-3-(1-ethylpropoxy)-, methyl ester, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
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MF C26 H44 N4 O8
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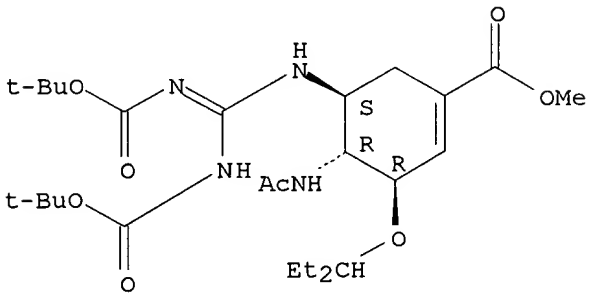
LC STN Files: CA, CAPLUS

Relative stereochemistry.
Double bond geometry unknown.

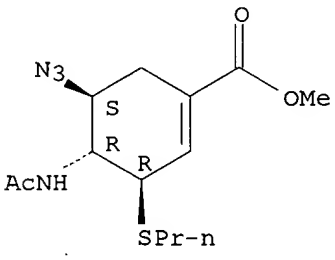


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 15 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182368-53-2** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-azido-3-(propylthio)-, methyl ester, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C13 H20 N4 O3 S
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 20 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182368-48-5** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-amino-3-(1-ethylpropoxy)-, methyl ester, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
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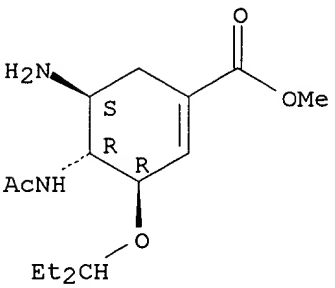
LC STN Files: CA, CAPLUS

Relative stereochemistry.

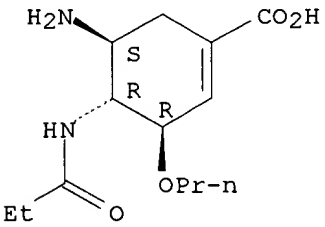


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 30 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182368-38-3** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 5-amino-4-[(1-oxopropyl)amino]-3-propoxy-, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C13 H22 N2 O4
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.



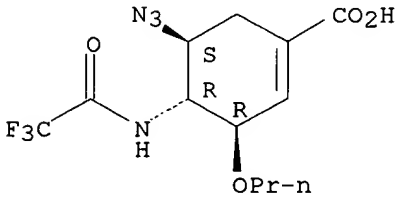
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 40 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182368-28-1** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 5-azido-3-propoxy-4-[(trifluoroacetyl)amino]-, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H15 F3 N4 O4

SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.

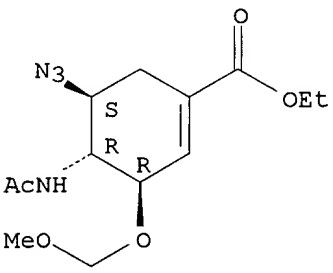


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 50 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182368-18-9** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-azido-3-(methoxymethoxy)-, ethyl ester, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C13 H20 N4 O5
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.

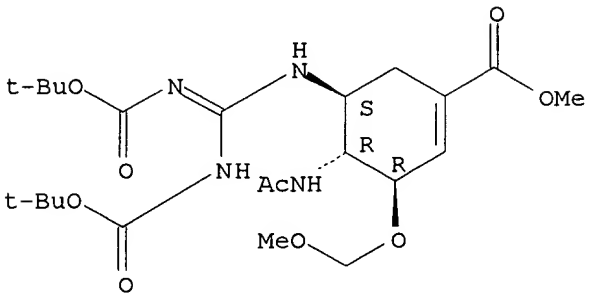


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 70 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182367-80-2** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-5-[[bis[[(1,1-dimethylethoxy)carbonyl]amino]methylene]amino]-3-(methoxymethoxy)-, methyl ester, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C23 H38 N4 O9
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.
Double bond geometry unknown.

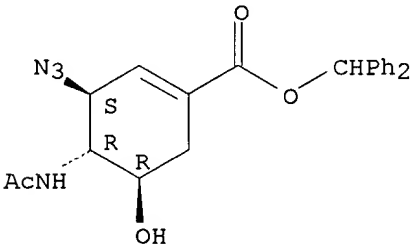


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 90 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **182367-34-6** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 4-(acetylamino)-3-azido-5-hydroxy-, diphenylmethyl ester, (3.alpha.,4.beta.,5.alpha.)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H22 N4 O4
SR CA
LC STN Files: CA, CAPLUS

Relative stereochemistry.



1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 125:300503

L14 ANSWER 110 OF 110 REGISTRY COPYRIGHT 1997 ACS
RN **9001-67-6** REGISTRY
CN Neuraminidase (9CI) (CA INDEX NAME)
OTHER NAMES:
CN .alpha.-Neuraminidase
CN Acetylneuraminidase
CN Arylneuraminidase

CN E.C. 3.2.1.18
CN N-Acetylneuraminidase
CN N-Acylneuraminyl hydrolase
CN Sialidase
DR 9014-31-7
MF Unspecified
CI MAN
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CBNB, CIN, CJACS, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, NAPRALERT, PNI, PROMT, RTECS*, TOXLINE, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
3399 REFERENCES IN FILE CA (1967 TO DATE)
60 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3402 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:107984

REFERENCE 2: 127:107762

REFERENCE 3: 127:107163

REFERENCE 4: 127:106995

REFERENCE 5: 127:106444

REFERENCE 6: 127:91195

REFERENCE 7: 127:90477

REFERENCE 8: 127:90152

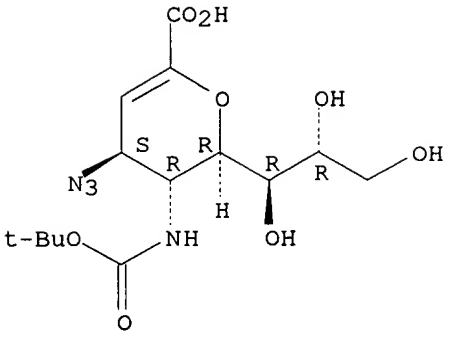
REFERENCE 9: 127:79959

REFERENCE 10: 127:79039

=> d ide can l15

L15 ANSWER 1 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171886-98-9** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-4-azido-3,4,5-trideoxy-5-[[(1,1-dimethylethoxy)carbonyl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C14 H22 N4 O8
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

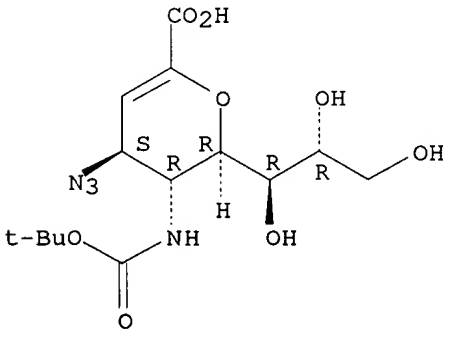
REFERENCE 1: 124:343829

REFERENCE 2: 124:56567

=> d ide can 1-34

L15 ANSWER 1 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171886-98-9** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-4-azido-3,4,5-trideoxy-5-[[(1,1-dimethylethoxy)carbonyl]amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C14 H22 N4 O8
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



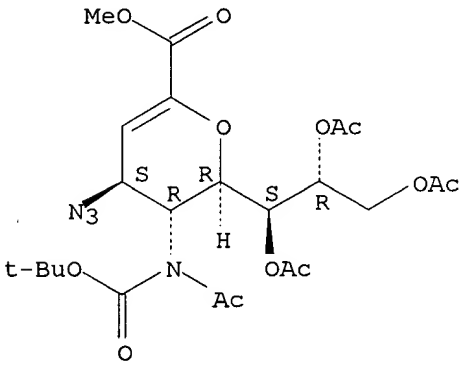
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:343829

REFERENCE 2: 124:56567

L15 ANSWER 2 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171886-97-8** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 5-[acetyl[(1,1-dimethylethoxy)carbonyl]amino]-2,6-anhydro-4-azido-3,4,5-trideoxy-, methyl ester, 7,8,9-triacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
DR 171241-93-3
MF C23 H32 N4 O12
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

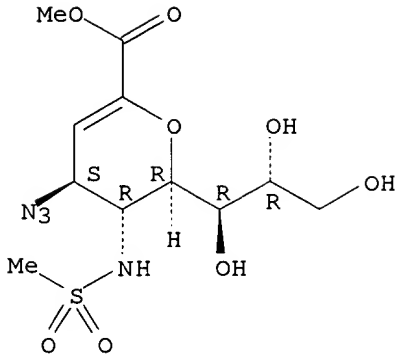
REFERENCE 1: 124:343829

REFERENCE 2: 124:56567

REFERENCE 3: 124:9327

L15 ANSWER 3 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171241-98-8** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-4-azido-3,4,5-trideoxy-5-[(methylsulfonyl)amino]-, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H18 N4 O8 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



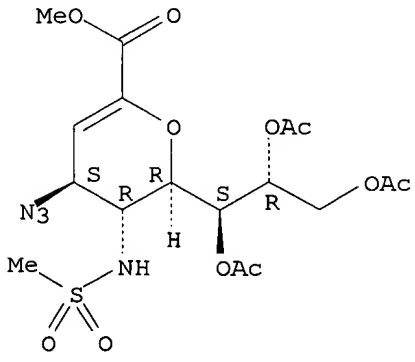
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:343829

REFERENCE 2: 124:9327

L15 ANSWER 4 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171241-97-7** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-4-azido-3,4,5-trideoxy-5-[(methylsulfonyl)amino]-, methyl ester, 7,8,9-triacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H24 N4 O11 S
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



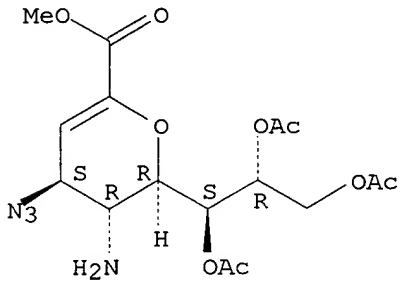
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:343829

REFERENCE 2: 124:9327

L15 ANSWER 5 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171241-96-6** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 5-amino-2,6-anhydro-4-azido-3,4,5-trideoxy-, methyl ester, 7,8,9-triacetate, monohydrochloride (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H22 N4 O9 . Cl H
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



● HCl

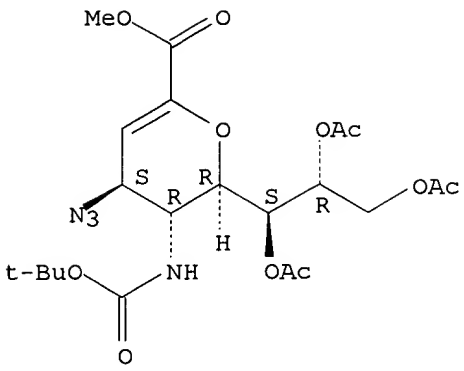
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:343829

REFERENCE 2: 124:9327

L15 ANSWER 6 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171241-95-5** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-4-azido-3,4,5-trideoxy-5-[[(1,1-dimethylethoxy)carbonyl]amino]-, methyl ester, 7,8,9-triacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C21 H30 N4 O11
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



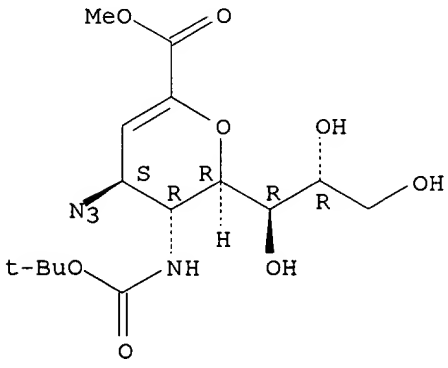
2 REFERENCES IN FILE CA (1967 TO DATE)
2 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:343829

REFERENCE 2: 124:9327

L15 ANSWER 7 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **171241-94-4** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-4-azido-3,4,5-trideoxy-5-[[(1,1-dimethylethoxy)carbonyl]amino]-, methyl ester (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C15 H24 N4 O8
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.



3 REFERENCES IN FILE CA (1967 TO DATE)
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

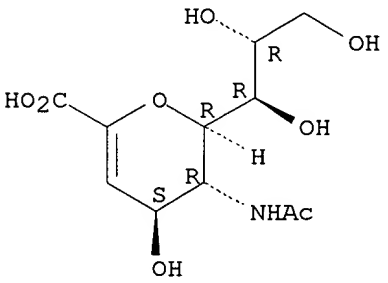
REFERENCE 1: 126:74745

REFERENCE 2: 124:343829

REFERENCE 3: 124:9327

L15 ANSWER 8 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **159658-90-9** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy-, sodium salt (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H17 N O8 . x Na
SR CA
LC STN Files: CA, CAPLUS, TOXLIT
CRN (24967-27-9)

Absolute stereochemistry.



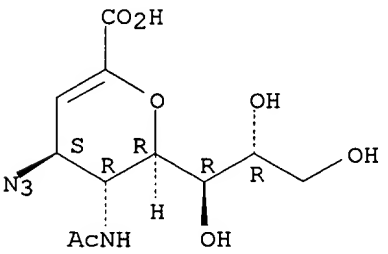
●x Na

1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 122:23254

L15 ANSWER 9 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **151781-02-1** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-4-azido-3,4,5-trideoxy- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H16 N4 O7
CI COM
SR CA
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

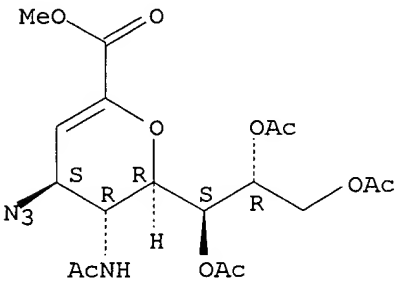


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 120:26132

L15 ANSWER 10 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **130525-58-5** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-4-azido-3,4,5-trideoxy-, methyl ester, 7,8,9-triacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
DR 171241-92-2
MF C18 H24 N4 O10
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX, USPATFULL
(*File contains numerically searchable property data)

Absolute stereochemistry.



16 REFERENCES IN FILE CA (1967 TO DATE)
16 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 124:343829

REFERENCE 2: 124:202859

REFERENCE 3: 124:117882

REFERENCE 4: 124:56567

REFERENCE 5: 124:9327

REFERENCE 6: 124:9230

REFERENCE 7: 123:286441

REFERENCE 8: 123:228669

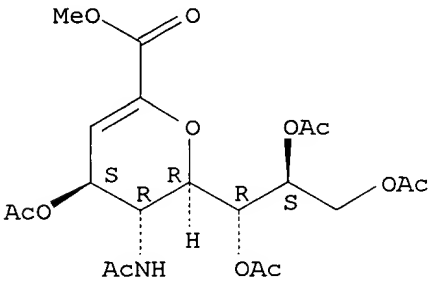
REFERENCE 9: 123:112531

REFERENCE 10: 123:33562

L15 ANSWER 11 OF 34 REGISTRY COPYRIGHT 1997 ACS

RN **108812-71-1** REGISTRY
CN L-glycero-L-altro-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy-, methyl ester, 4,7,8,9-tetraacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N O12
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Absolute stereochemistry.

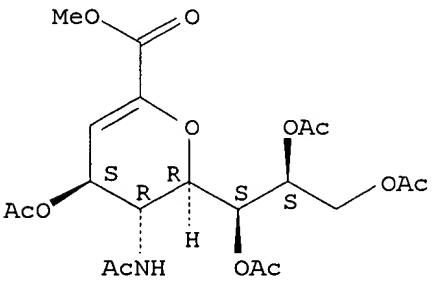


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:154651

L15 ANSWER 12 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **108812-70-0** REGISTRY
CN L-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy-, methyl ester, 4,7,8,9-tetraacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N O12
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Absolute stereochemistry.

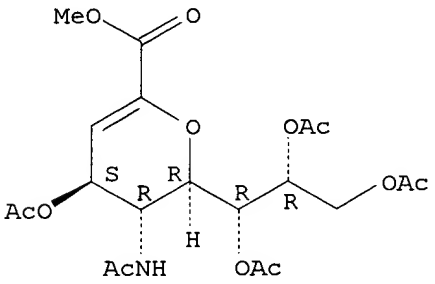


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:154651

L15 ANSWER 13 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **108812-69-7** REGISTRY
CN D-glycero-L-altro-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy-, methyl ester, 4,7,8,9-tetraacetate (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C20 H27 N O12
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT, CHEMINFORMRX
(*File contains numerically searchable property data)

Absolute stereochemistry.

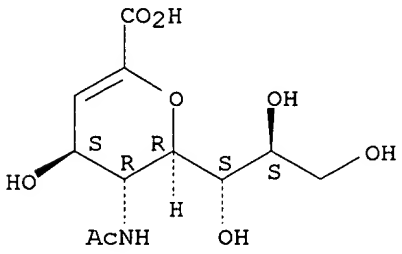


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:154651

L15 ANSWER 14 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **108675-62-3** REGISTRY
CN L-glycero-L-altro-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H17 N O8
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.

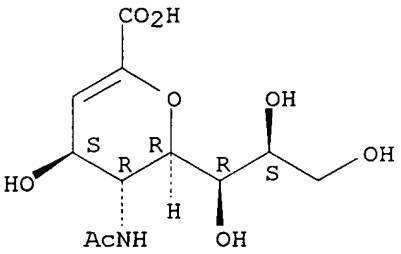


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:154651

L15 ANSWER 15 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **108675-61-2** REGISTRY
CN L-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H17 N O8
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS, CASREACT
(*File contains numerically searchable property data)

Absolute stereochemistry.

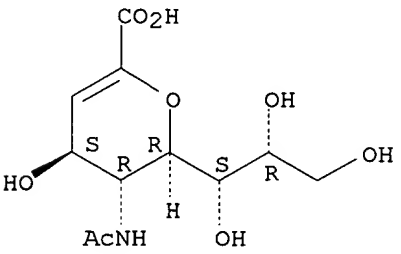


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:154651

L15 ANSWER 16 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **108675-60-1** REGISTRY
CN D-glycero-L-altro-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C11 H17 N O8
SR CA
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

Absolute stereochemistry.

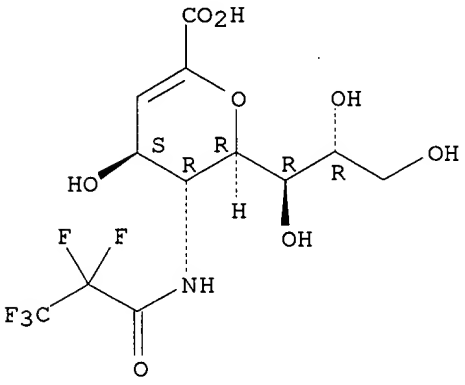


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 107:154651

L15 ANSWER 17 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **80457-98-3** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-3,5-dideoxy-5-[(2,2,3,3,3-pentafluoro-1-oxopropyl)amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C12 H14 F5 N O8
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

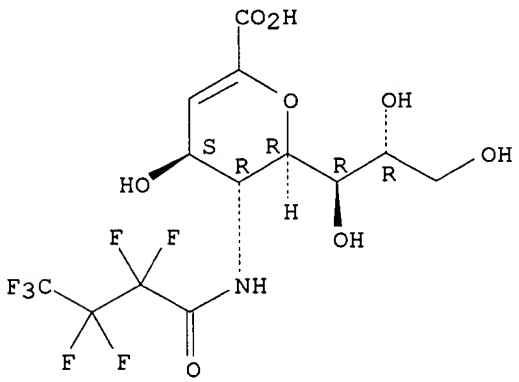


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 96:81804

L15 ANSWER 18 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **80457-97-2** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-3,5-dideoxy-5-[(2,2,3,3,4,4,4-heptafluoro-1-oxobutyl)amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C13 H14 F7 N O8
LC STN Files: CA, CAPLUS

Absolute stereochemistry.

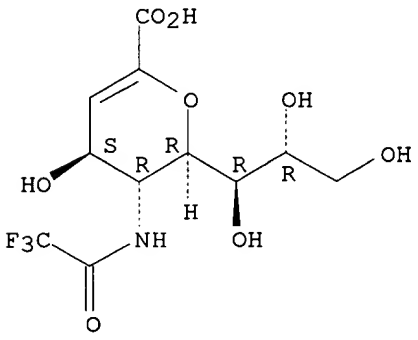


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 96:81804

L15 ANSWER 19 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **41976-50-5** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 2,6-anhydro-3,5-dideoxy-5-[(trifluoroacetyl)amino]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
DR 62746-88-7
MF C11 H14 F3 N O8
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.



8 REFERENCES IN FILE CA (1967 TO DATE)
8 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 116:41912

REFERENCE 2: 96:81804

REFERENCE 3: 90:199440

REFERENCE 4: 87:15821

REFERENCE 5: 82:119464

REFERENCE 6: 81:99310

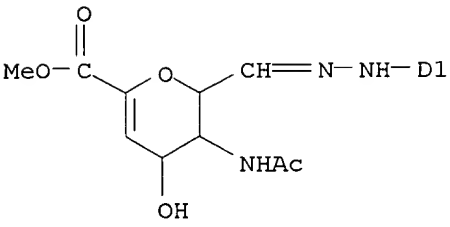
REFERENCE 7: 80:142306

REFERENCE 8: 79:5524

L15 ANSWER 20 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **30732-24-2** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-[(nitrophenyl)hydrazone] (8CI) (CA INDEX NAME)
MF C16 H18 N4 O7
CI IDS

LC STN Files: CA, CAPLUS, TOXLIT

D1—NO_2

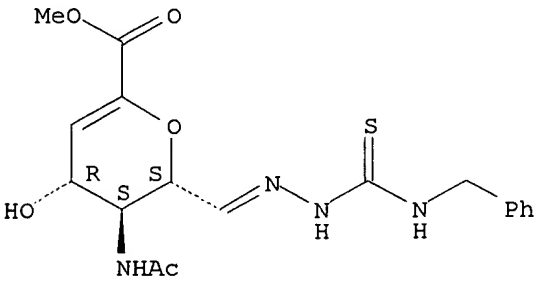


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 21 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-94-5** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, 1-(4-benzyl-3-thiosemicarbazone) (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Semicarbazide, 4-benzyl-3-thio-, 1-semicarbazone with methyl 3-acetamido-2,6-anhydro-3,5-dideoxy-D-lyxo-hept-5-enuronate (8CI)
FS STEREOSEARCH
MF C18 H22 N4 O5 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.

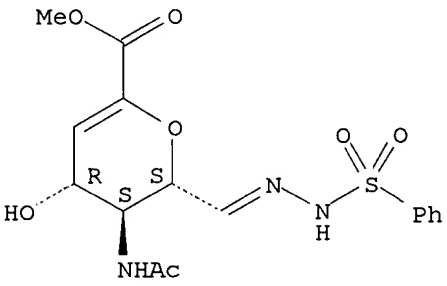


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 22 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-93-4** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-[(phenylsulfonyl)hydrazone] (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H19 N3 O7 S
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.

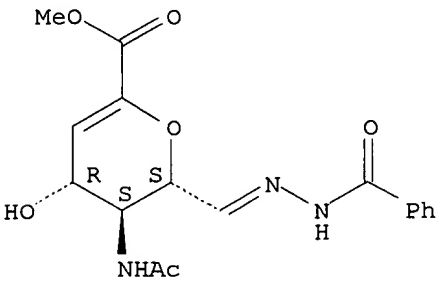


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 23 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-91-2** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-(benzoylhydrazone) (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C17 H19 N3 O6
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.



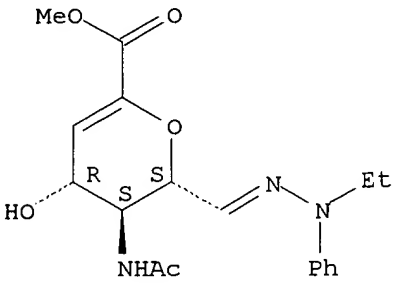
1 REFERENCES IN FILE CA (1967 TO DATE)

1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 24 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-90-1** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-(ethylphenylhydrazone) (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C18 H23 N3 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.

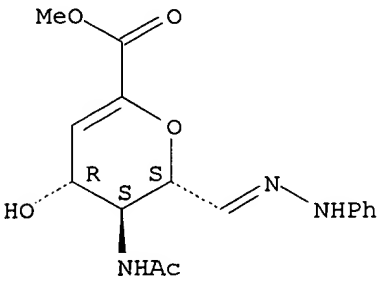


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 25 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-89-8** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-(phenylhydrazone) (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C16 H19 N3 O5
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.

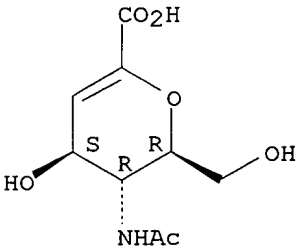


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 26 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-88-7** REGISTRY
CN L-arabino-Hept-2-enonic acid, 5-acetamido-2,6-anhydro-3,5-dideoxy- (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C9 H13 N O6
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

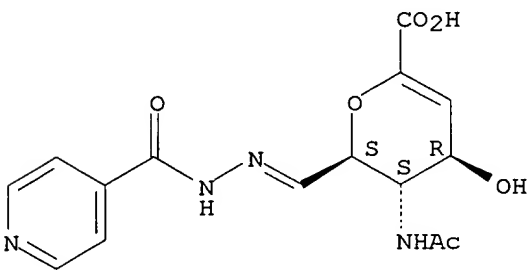


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 27 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-87-6** REGISTRY
CN Isonicotinic acid hydrazide, 1-hydrazone with 3-acetamido-2,6-anhydro-3,5-dideoxy-D-lyxo-hept-5-enuronic acid (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, 1-(isonicotinoylhydrazone) (8CI)
FS STEREOSEARCH
MF C15 H16 N4 O6
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.
Double bond geometry unknown.

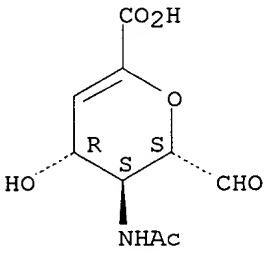


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 28 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **29429-86-5** REGISTRY
CN D-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy- (8CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C9 H11 N O6
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

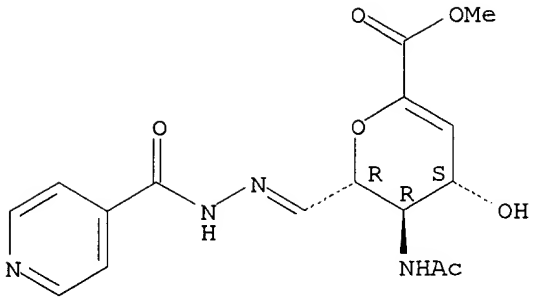


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 29 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **26372-80-5** REGISTRY
CN L-lyxo-Hept-5-enuronic acid, 3-(acetylamino)-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-[(4-pyridinylcarbonyl)hydrazone] (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Isonicotinic acid hydrazide, 1-hydrazone with methyl 3-acetamido-2,6-anhydro-3,5-dideoxy-L-lyxo-hept-5-enuronate (8CI)
CN L-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester, 1-(isonicotinoylhydrazone) (8CI)
FS STEREOSEARCH
DR 26605-39-0
MF C16 H18 N4 O6
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.
Double bond geometry unknown.

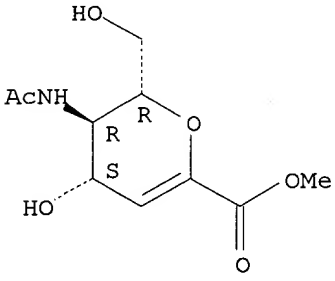


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 30 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **26372-79-2** REGISTRY
CN L-arabino-Hept-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-arabino-Hept-2-enonic acid, 5-acetamido-2,6-anhydro-3,5-dideoxy-, methyl ester (8CI)
FS STEREOSEARCH
DR 26372-92-9
MF C10 H15 N O6
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXLIT
(*File contains numerically searchable property data)

Absolute stereochemistry.



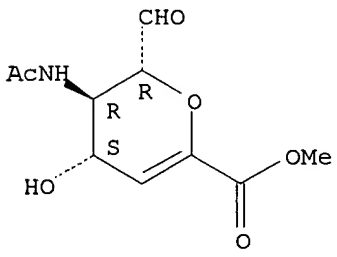
1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 31 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **26372-78-1** REGISTRY
CN L-lyxo-Hept-5-enuronic acid, 3-(acetylamino)-2,6-anhydro-3,5-dideoxy-, methyl ester (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN L-lyxo-Hept-5-enuronic acid, 3-acetamido-2,6-anhydro-3,5-dideoxy-,

methyl ester (8CI)
FS STEREOSEARCH
MF C10 H13 N O6
LC STN Files: CA, CAPLUS, TOXLIT

Absolute stereochemistry.

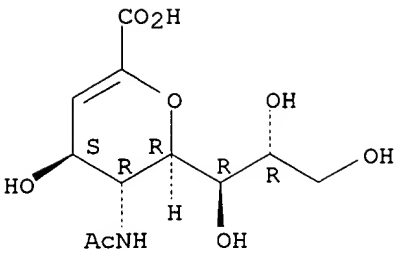


1 REFERENCES IN FILE CA (1967 TO DATE)
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 73:42027

L15 ANSWER 32 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **24967-27-9** REGISTRY
CN D-glycero-D-galacto-Non-2-enonic acid, 5-(acetylamino)-2,6-anhydro-3,5-dideoxy- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN D-glycero-D-galacto-Non-2-enonic acid, 5-acetamido-2,6-anhydro-3,5-dideoxy- (8CI)
OTHER NAMES:
CN 2,3-Dehydro-2-deoxy-N-acetylneuraminic acid
CN 2-Deoxy-2,3-didehydro-N-acetylneuraminic acid
CN DANA
CN Neuraminic acid, N-acetyl-2,3-didehydro-2-deoxy-
FS STEREOSEARCH
DR 124672-92-0
MF C11 H17 N O8
CI COM
LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, CA, CANCERLIT, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMLIST, CJACS, CSCHEM, EMBASE, MEDLINE, MSDS-OHS, SPECINFO, TOXLINE, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



81 REFERENCES IN FILE CA (1967 TO DATE)
6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
82 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 126:260702

REFERENCE 2: 125:131624

REFERENCE 3: 125:29043

REFERENCE 4: 124:75561

REFERENCE 5: 124:3946

REFERENCE 6: 123:333507

REFERENCE 7: 123:246870

REFERENCE 8: 123:246035

REFERENCE 9: 123:78965

REFERENCE 10: 122:234094

L15 ANSWER 33 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **9001-67-6** REGISTRY
CN Neuraminidase (9CI) (CA INDEX NAME)
OTHER NAMES:
CN .alpha.-Neuraminidase
CN Acetylneuraminidase
CN Arylneuraminidase
CN E.C. 3.2.1.18
CN N-Acetylneuraminidase
CN N-Acylneuraminyl hydrolase
CN Sialidase
DR 9014-31-7
MF Unspecified
CI MAN
LC STN Files: AGRICOLA, ANABSTR, BIOBUSINESS, BIOSIS, CA, CABA, CAPLUS, CASREACT, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CBNB, CIN, CJACS, CSCHEM, DDFU, DRUGU, EMBASE, IFICDB, IFIPAT, IFIUDB, IPA, NAPRALERT, PNI, PROMT, RTECS*, TOXLINE, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
3399 REFERENCES IN FILE CA (1967 TO DATE)
60 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
3402 REFERENCES IN FILE CAPLUS (1967 TO DATE)

REFERENCE 1: 127:107984

REFERENCE 2: 127:107762

REFERENCE 3: 127:107163

REFERENCE 4: 127:106995

REFERENCE 5: 127:106444

REFERENCE 6: 127:91195

REFERENCE 7: 127:90477

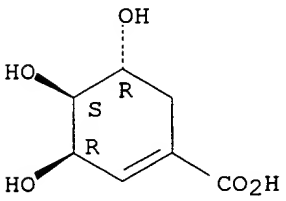
REFERENCE 8: 127:90152

REFERENCE 9: 127:79959

REFERENCE 10: 127:79039

L15 ANSWER 34 OF 34 REGISTRY COPYRIGHT 1997 ACS
RN **138-59-0** REGISTRY
CN 1-Cyclohexene-1-carboxylic acid, 3,4,5-trihydroxy-,
[3R-(3.alpha.,4.alpha.,5.beta.)]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN (-)-Shikimic acid
CN Shikimic acid
FS STEREOSEARCH
DR 22574-35-2
MF C7 H10 O5
CI COM
LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN*, BIOBUSINESS, BIOSIS, CA,
CABA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CEN, CHEMCATS,
CHEMINFORMRX, CHEMLIST, CIN, CJACS, CSCHEM, DDFU, DRUGU, EMBASE,
HSDB*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK*, NAPRALERT,
PROMT, RTECS*, TOXLINE, TOXLIT, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)

Absolute stereochemistry.



679 REFERENCES IN FILE CA (1967 TO DATE)
28 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
680 REFERENCES IN FILE CAPLUS (1967 TO DATE)
55 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

REFERENCE 1: 127:108219

REFERENCE 2: 127:80489

REFERENCE 3: 127:63247

REFERENCE 4: 127:46778

REFERENCE 5: 126:282269

REFERENCE 6: 126:261604

REFERENCE 7: 126:235730

REFERENCE 8: 126:211524

REFERENCE 9: 126:186312

REFERENCE 10: 126:86831